(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization

Organization
International Bureau



I (DELTA ENTREMENTA DE DELTA ENTRE DESTA BENER BENER I IN DEL CONTRE SUNTA BENER DELLA DELLA DELLA DELLA DELLA

(43) International Publication Date 28 October 2004 (28.10.2004)

PCT

(10) International Publication Number WO 2004/093498 A1

(51) International Patent Classification⁷: 6/66, H05K 1/02, H01L 23/34

H05B 6/68,

(21) International Application Number:

PCT/JP2004/005142

(22) International Filing Date:

9 April 2004 (09.04.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

 2003-108180
 11 April 2003 (11.04.2003)
 JP

 2003-270458
 2 July 2003 (02.07.2003)
 JP

 2003-278578
 23 July 2003 (23.07.2003)
 JP

 2003-287537
 6 August 2003 (06.08.2003)
 JP

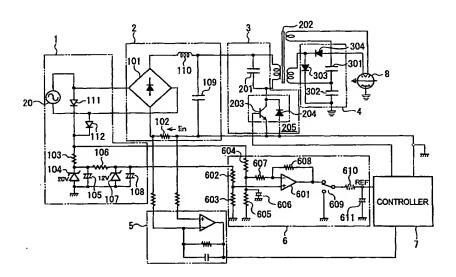
- (71) Applicant (for all designated States except US): MAT-SUSHITA ELECTRIC INDUSTRIAL CO. LTD. [JP/JP]; 1006 Oaza Kadoma Kadoma-shi Osaka, 5718501 (JP).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): SUENAGA, Haruo. MORIYA, Hideaki. MORIKAWA, Hisashi. SAKAI,

Shinichi. MIHARA, Makoto. SHIROKAWA, Nobuo. MATSUKURA, Toyotsugu. MATSUDA, Masato.

- (74) Agents: OGURI, Shohei et al.; Eikoh Patent Office 13th Floor ARK Mori Building, 12-32 Akasaka 1-chome, Minato-ku, Tokyo, 1076013 (JP).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: HIGH FREQUENCY HEATING APPARATUS



(57) Abstract: There is constructed a constitution such that a shunt resistor 30 is interposed in series with a portion capable of measuring an output current of a unidirectional power source portion 1 of a high frequency heating apparatus and a voltage generated at the shunt resistor 30 is outputted by a buffer 31. Further, an operational amplifier 3101 having a high input impedance is used for the buffer 31. Further, a diode bridge 101 and a semiconductor switching element 205 are fixed to a common heat radiating plate 33, the heat radiating plate 33 is formed with a notched portion 33a to thereby ensure insulating distances to the diode bridge 101 and the semiconductor switching element 205, and the shunt resistor 30 is arranged on a straight line the same as that between the diode bridge 101 and the semiconductor switching element 205.



WO 2004/093498 A1



Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.